

Amendments to the Claims:

The following listing of the claims replaces all previous listings and versions of the claims in this application:

Listing of the claims:

Claims 1-20: (Cancelled)

21. (New) A method for the electronic registration of a cosmic radiation dose to which a person on a flight in an aircraft is exposed, the method comprising:

(a) providing system comprising a central computer programmed to register and process electronic data representing information in a flight logbook of the person, and at least one terminal configured to provide data input to the central computer; and

(b) inputting data to the computer, wherein the input data include information relating to the identity of the person, the date of the flight, a flight identification number, flight duration time, and departure and arrival locations of the flight; and wherein the inputting of the data to the computer is performed by (1) obtaining access to the at least one terminal by verifying the conforming of an inputted password with the identity of the person, and (2) inputting the data, including any needed corrections of erroneous data, into the at least one terminal; and

(c) calculating a radiation dose to which the person is exposed based on observatory data available from at least one observatory.

22. (New) The method according to claim 21, further comprising:

(d) storing the data in the computer so as to prevent a subsequent correction of any of the input data.

23. (New) The method according to claim 22, further comprising:

(e) accessing the central computer for obtaining an output of the data regarding the person by inputting the password.

24. (New) The method according to 21, wherein the system further comprises a GPS unit operable to calculate the longitude, the latitude and the altitude of the aircraft.

25. (New) The method according claim 21, wherein the calculating of a radiation dose is performed by:

- (1) creating a great circle arc between the departure location and the arrival location;
- (2) dividing the great circle arc into a number of reference points that correspond to the number of minutes of the flight;
- (3) calculating the latitude, longitude, and altitude of the aircraft at each of the reference points of the great circle arc;
- (4) calculating the radiation dose per hour at each of the reference points with a neutron counting number of the time by means of a function with a set of predetermined constants that are selected from the calculated altitude of the aircraft at a time corresponding to each of the reference points;
- (5) correcting the radiation dose per hour to the calculated latitude, longitude, and altitude at each of the reference points by getting a quotient for the actual latitude, longitude, and altitude of the aircraft from a position database, and then multiplying the radiation dose per hour at each of the reference points by the quotient;
- (6) dividing the result of step (5) by 60 to obtain a calculated partial radiation dose at each of the reference points; and
- (7) upon completion of steps (1) through (6) for all of the reference points, summing the calculated partial radiation doses for all of the reference points.

26. (New) The method according to claim 21, wherein the at least one terminal includes a computer unit selected from the group consisting of at least one of a PC with a control program for the execution of the data inputting steps, and an electronic data registration device connected to a global computer network for the inputting of the data into the central computer via the global computer network.

27. (New) The method according to claim 21, wherein the data input into the central computer further comprise information regarding weather and low visibility conditions for the flight

28. (New) The method according to claim 21, wherein the electronic data input into the central computer further comprise data regarding characteristics of the aircraft.

29. (New) The method according to claim 23, wherein the output of the data includes an authenticity code generated on the basis of data regarding the person, the complete time of the flight, and the date and hour of the output

30. (New) The method according to claim 29, wherein the authenticity code is encrypted.